
 GEVEN NEW WPECIEN.

## By G. IBROWN GOODE aHI TAIRLETON H. BEAN.

## MALTHEIDE.

1. Halieutichthys aculeatus (Mitchill), (troote.

Lopkites renheatus, Mrrcmili. Amer. Monthly Mag. II, 187*, p. 325 (Straits of Bahama).
Hulientichthys reticulutus, Pow, Proc. Aead. Nat. Sci., Phil., 1863, p. 91 (Cuba).
Hulieutichthys aculeatus, Goode. Proc. U. S. N. M., II, 1879, p. 109 (calling attention to Mitchill's description).

A single specimen, No. 23552, 5 centimeters long, was collected by Dr. Velie, at Key West.
DIODONTIDA.
2. Chilomycterus geometricus (Linn.), Kaup.

Two specimens (No. 23542) collected at Key West. They beloug to Giinther's var. a, but are much lighter than any specimens among the hundreds we have seen from the North Atlantic coast, the width of the brown longitudinal stripes being comparatively small in relation to those of light color.

> OSTRACIONTID E.
3. Ostracion trigonus, LiNN.EUn.--Sheell-fish.

A single sperimell in salt (No. 23645 ) from the west coast of the peninsula.

> BALISTID.E.
4. Monacanthus occidentalis, (iinther.

A single specimen (No.23551), 63 millimeterslong, from Key West. The specimen has the seales upon the posterior portion of the body hispidate, also a pair of strong recurved spines on each side of the candal peduncle. Four indistinct'longitudinal brown bands mon the side, and a fifth much deeper in color at the base of the rentral flap, triangular in form, the base of the triangle extending from hase of the ventral spine to the vent. The outer half of the ventral flap is white with a submarginal stripe and three or four lines of ocelle of light brownish gray.
D. 30, A. 30 .

> SYNGNATHDE.
5. : Syngnathus louisianæ, Guinther.

A single specimen (No. 23549), 64 millimeters long, was collected by Dr. Velie at San Marco lsland, Florida.
D. 32 (?). Osseous rings $1 \bar{i}+32$.

The specimen corresponds closely with Guinther's description. Its principal points of distinction from S. fuscus are the low, somewhat short dorsal fin and the short snont.

## BATRACHIDE.

6. Batrachus tau, Limurens, sulbsp. beta, Giinther.

A specimen (No. 23.51), ,2: centimeters long, was collected by Dr. Velie at Punta liusia, the most southem locality on record for this species.*

This tish, like all other (inlf of Mexico specimens inspected by us, agrees closely with var. $\beta$, as defined low diinther, t in the temdeney to expansion of the dark areas: the presence of small whitish spots upon the body; the greater average nmber of bands on the anal, approximating in momber those of the dorsal, and the marking of the pectorals and candal in white spots mpon dark gromm, ather than in brown upon white. The eoloration of the southern specimens appears to be due to a tendency toward melanism, the dark aress being intensified as well as expranded. In the Pima Rassa sperimen (No. 23.541 ) the main color is nearly black, the lines and marblings being of light shades of brown and brownish white, sharply and beantifnlly defined against the dark body-color. In the Pensacola specmen, No. 21477, he melanistic tendency is less evident. We comsider the Gulf specimens as, for the present, constituting a distinet subspecies, founded entirely upon color.

Radial formula of No. 23541, D. III, 24. 1. II, 19. The first and second dorsal fins are contimoms in 23:41, but this is avidently aceidental.

That the mmber of bands on the fins and their tendency to conthence is a character of little importance is shown in the following color notes: No. 46.3 \%. Beesley's Point. S. F. Baird.

Light brown, finely marbled with darker, and not white spotted (a and $b$ ). Dorsal with right bauds. Anal with seven bands. Caudal with six hauds. Pectorals irregularly brown spotted.
4637 b. Beesley's Point. S. F. Baird.
Light brown, coarsely marlled with darker. Dorsal with six bands, anal with six bands, caudal with four bands, pertorals with the brown spots arranged in four bands.

[^0]4637 c. Beesley's Point. S. F. Baird.
Dorsal with eight, anal with seven, caudal with five, pectoral with five bands.
4637 d. Beesley's Point. S. F. Baird.
Dorsal with eight, anal with six, candal with four, pectoial with spots arranged in irregular, almost complete, bands.
4637 e.
Dorsal with nine bands, the second and third and sixth and seventh confluent. Anal with nine bands. Pectoral with irregularly arranged quadrangular spots of brown and white, in a sort of checkerboard arrangement.
3441. Norfolk, Va. Dr. Jeffiries.

Body as nsual. Dorsal with seren, anal with eight, caudal with four bands. Pectorals irregularly spotted with brown, arrauged approximately in five bands.
23541. Punta Russa, Fla. Dr. J. W. Velie.

Body brown, marbled with very dark brown, and spotted with whitish. Dorsal with nine very regular blackish bands of uniform width, sharply separated by white. Inal with nine regular bands. Caudal with five. Pectoral brownish black dotted with white.
20632 . Wood's Holl, Mass. U. S. F. C.
Young specimen. White, with sides coarsely reticulated with brown. Dorsal with seven inregular contluent bands. Anal with nine irregular bands. Candal irregularly marbled with broad penciling of brown. Pectoral with three or four very irregular lines of brown blotches.

D 26. A 21.
Others in the same bottle correspond in markings and radial formulæ. 746. Indianola, Texas. J. H. Clark.

Faded alcoholic specimens show a general agreement with the other Gulf specimens in the presence of seven to nine bands in both dorsal and anal, and in the white spots on pectoral and caudal.
D. III. 25 ; A. 20 (in two specimens).
21477. Pensacola, Fla. Silas Stearns.

Body nearly black, but agreeing in general with the descriptions, and with tendency to white maculation on body, pectoral, and caudal. Three bands on dorsal, eight on anal, not clearly separated as in the Key West specimen.

Table of measurements.
Batrachus tau, subsp. beta.

7. Batrachus tau, sulsil. pardus Goode d. Bean.

Two specimens of a vary remarkable form of Batrachus were collected in I'ensalcola in 1878 ly Mr. Nilas Steams. They are mentioned on p. 127, in our pape on the fishes of Pensacola, september 19, 1s79. Our suspicions as to their specitio individuality then expressed have not been contirmed by more careful stmoty. The characters by which they are separated from typical Batrachus tou are extremely difficnlt to define. Yet, unless other specimens are obtained which shall bridge the chasm between the two Pensacola specimens and all others of $B$. tau from Pensacola and elsewhere in the Masemm, we cannot but consider them as representing two distinct subspecies. The melanistic tendency of the typical B. tau in the Sonth, as observed by Giinther and illustrated by all our Gulf specimens, should be taken into consideration, for the types of $B$. parrus are lighter in color than any specimens of $B$. tun in the Museum.

The vertebre number 1シ-2ン (the modified vertebra at the base of the candal fir not being inchoded). These fish were called in Pensacola by the names "Sea Robin" and "Sarpo"; the latter being doubtless a corruption of the Spanish "Sapo", meaning "toad".

Color.-Body very light jellowish brown, gray beneath, thickly spotted with dark brown. The spots on the head are smaller than those on the body. Those on the under side of the body are numerous, circular, the largest equalling the eye in size. On the upper part of the back are many large oblong blotches of brown, interspersed with numerous smaller circular spots. The markings of the dorsal and anal fins remotely resemble those in Batrachus tau, subsp. $\alpha$ and $\beta$. In No. $22337 a$ there are nine interrupted bands on the dorsal and six on the anal., two distinct bands on the anterior half of the caudal, and on its posterior half numerous blotches of the body color or dark brown grayish. Pectorals grayish at the base, yellowish brown elsewhere, and thickly blotched with dark brown.

In No. $22337 b$ the oblique bands on the dorsal fin are obsolete, replaced by irregular blotches and an irregular marginal band of black. The anal exhibits obsolescent bands, perhaps eight in number. Caudal dark brown with a few light blotches. Pectoral as in 22337 a, but with a wide brownish black margin.

Table of measurements.
Batrachus tau, subsp. pardus.


* Fin injured; some of the rays are missing-II, 26 present.


## TRIGLIDA.

8. Prionotus punctatus (Bloch), Cuvier.

A single young specimen (No. 23550), 61 millimeters in length, was collected by Dr. J. W. Velie, at Clear Water Harbor, Fla.
D. X, 13 ; A. I, 11 .

## SCORP ENID E.

9. Scorpæna ip.

A small specimen in bad condition (No. 23n56), 4.5 millimeters long, from Clear Water ILarbor, Fla. It agrees in most particulars with Scorponu phomieri, schu., but appens to have much larger scales. The scales are rubbed off from the posterior part of the body, but the indications are that they did not exceed 30 or 35 in number, while $S$. plumieri has 45 . The count is not sufficiently certain to be of value, but the occurrence of the genus at this locality should be noted.
D. XI, I, 10; A. III, 5.

> LABRIDAE.
10. Chœrojulis humeralis (Poey).

A single joung sperimen (No. 236 (i) (i), millimeters long, collected at Clear Water Ilarbor, Fla. It agrees with Poey's type of Julis humeralis except in the absence of the nuchal band, the band upon the dorsal fin, and the dark corners of the eandal fin. These may possibly be acquired with age. The thres (nhan specimens examined all exceeded 120 millimeters in length.
D. IX, 11; A. III, 12. L. lat. $2|27| 9$.

## POMACENTRIDA.

## 11. Pomacentrus leucostictus M. \& T.

Three specimens (No. 23627 ), 46 millimeters to 55 millimeters long, were collected by Mr. J. W. Telie, at Clear Water Harbor, Fla. The species is a strongly-marked one, and the specimens before us agree in every particular with Dr. Giinther's excellent description. They are of the brown type of coloration, and are sufficiently young to show traces of the black ocella on the tail, thongh the blue ring is not very distinct, and of the convergent blue lines on the snout. Specimens of the same size from the Bermudas show them much more clearly.
I. XII, 15; A. II, 13; -L. Lat. $3|28|$ !.
12. Glyphidodon concolor (Gill), (riinther.

A single specimen (No. 2365), 38 millimeters long, was taken at Marquesas Keys, Florida. The radial formula is as follows:

$$
\text { D. XII, 1ン ; 1. II, } 8 \frac{1}{1} ; \text { V. I, } 5 ; \text { Scales } 2 \frac{1}{2}-25-9 \frac{1}{2}
$$

There are six dark bands on the body and tail.

## CARANGIDA.

13. Oligoplites occidentalis (Linn.), Gill.-Herring.

Two or three specimens (No. 23646) in salt from "West Florida."
14. Trachynotus ovatus (Lim.), Giinther.

Six young specimens (No. 23638), 22 millimeters to 32 millimeters long, were obtained at Marquesas Keys, Florida. The radial formulæ are as follows :

$$
\begin{array}{ll}
\text { (a.) D. vi, i, 18. } & \text { A. ii, i, 17. } \\
\text { (b.) D. vi, i, 18. } & \text { A. ii, i, 17. } \\
\text { (c.) D. vi, i, 19. } & \text { A. ii, i, 18. } \\
\text { (d.) D. vi, i, 18. } & \text { A. ii, i, 17. } \\
\text { (e.) D. vi, i, 18. } & \text { A. ii, i, 17. } \\
\text { (f.) D. vi, i, 19. } & \text { A. ii, i, 17. }
\end{array}
$$

15. Trachynotus goreensis, Cuv. and Val. Permit; Crevallé.

A large specimen (No. 23647), in salt, about 20 inches long, was sent from West Florida by I)r. Velie. It agrees with the form which we at present call Trachynotus goreensis.

Several small specimens (No. 23637), 27 millimeters to 50 millimeters long, apparently of the same species, were obtained at Marquesas Keys. (a.) D. VI, 1, 19: A. I1, 1, 17. (b.) D. VI, 1, 19: A, II, 1, 17. (c.) D. VI, 1, 17; A. I1, 1, 17.
The figure given by Girard in the lehthyology of the Mexican Boundary, plate xi, fig. 4, under the name Doliodon carolimus, is pretty certainly taken from a foung specimen of this species, thougl the number of rays in the dorsal has perhaps been changed to make the figure correspond with the description on page 22 .

The young T. gorcensis is distinguished from T. carolinus of the same size by the greater height of the spinous dorsal, the smaller number of dorsal and anal rays, and the stronger black blotch upon the lobe of the dorsal.
16. Carangus pisquetus (Cuv. and Val.), Girard.-Leather Jacket.

Caranx pisquetos, Cuvier and Valenciennes, Hist. Nat. Poiss., ix, p. 97.
Carangus pisquetus, Girard. Proc. Acad. Nat. Sci., Phila., x, 1858, p. 168.
Paratractus pisquetus, Gill, Proc. Acad. Nat. Sci. Phila., 1862, p. 432.
Three specimens (No. 23642), in salt, from West Florida, apparently belonging to this species.
17. Selene argentea (Lacép.), Brevoort.-Moonfish.

A single specimen in salt (No. 23641), from West Florida.

$$
\text { GERRID } \notin .
$$

18. Diapterus harengulus, Goode \& Bean.

Eucinostomus harengulus, Goode \& Bean, Proc. U. S. Nat. Mus., II, p. 132.
Two specimens (No. 23630), 65 and 66 millimeters long, from Clear Water Harbor, Fla.
D. IX, 10 ; A. III, 7; P. 15; V.I, 5; C. +17 +. L. lat. 44; L. transr. $\frac{5}{10}$.

The back has a slight tawny hue, interrupted as it blends with the white of the sides by five or six indistinct, scollopy incursions of the body color, giving the upper part of the side of the fish a marbled appearance.
19. Diapterus homonymus, 11. sp. Goode \& Bean.

Jincinostomus argentens, Girabi, I. S. \& Mex. Bomnd. surv., Vol. II, Part II, 1859. Ichth. p. 17, pl. IN, figs. 9-1:2 (not Baird \& Girard, 1854).
tiferes argeutens, Giènther, Cat. Fish Brit. Mus., IV', 1E62, 1. 256.
Three specimens (No. 23639), 57-70 millimeters loug, from Clear Water Harbor.
D. 1N, 10 ; A. III, 7. L. lat. 47 ; L. transi. $\frac{5}{10}$.

This species is distinct from Diapterus argentens (Eucinostomus argenteus of Professor Baird's Report on Fishes of New Jersey coast), though specifically identical with the forms credited to Gerres urgenteus by Giinther, ou the testimony of specimens distributed, under the name Eucinostomus aryenteus, by the Smithsonian Institution.

> SPARIDE.
20. Sparus, sp.-Sheepshead.

A large specimen in salt (No. 23641), from "West Florida," too dilapidated for identification.
D. XII, $10 \frac{1}{2} ;$ A. 111, 9. L. lat. 55.

## PRISTIPOMATIDE.

## 21. Hæmulon fremebundum, n. sp. Goode \& Bean.

Two specimens (No. 23628), 60 millimeters and 62 millimeters long, were collected by Dr. J. W. Velie, at Clear Water Harbor, Fla. Their general appearance is similar to that of Hemulon trivittatum (Schn.) Goode (H. capeuna of the Bermuda catalogue), bat the body is higher, the number of spines and rays in the dorsal fin is different, and the seales are much larger, particularly upon the sides, and the second anal spine much stronger. The form may possibly correspond to that called by Cuvier, H. caudimacula, but the description of this species is so vague that it does not seem justifiable to thus sanction the use of the name; particularly since Cuvier's species came from Brazil. The diagnosis here presented is not a complete one, but none better could be prepared from our specimens.

Diagnosis.-Height of body contained 3 times in total length without caudal, $3 \frac{1}{2}$ in length of fish, caudal included. Length of head equals height of body. Length of snont less than diameter of eye (the specimens being young), and contained about four times in the length of the head, and equalling leugth of operculum. Eye contained in length of head less than three times. Posterior extremity of maxillary extends beyond the vertical through the anterior margin of the orbit, but not
to that throngh the middle. P'reoperculnm with momerons sharp denticulations urou its posterior margin and aromel the angle, the latter the largest. Dorsal fin moderately notehed, the fourth spines the longest, contained twice in the length of the head. Second anal spine very strong, and longer than the fouth dorsal spine; longer also than third amal spine. Pectoral fin reaches to rertical from 11th spine of dorsal, its length contained $4_{3}^{\frac{1}{3}}$ in length of body withont candal, $5 \frac{1}{2}$ in total length. Length of ventral equal to that of eaudal peduncle, and extending as far back as does the pectoral.

Scales very large, and so irregularly arranged that it is impossible to make a close enmeration of them: there are about forty-eight to fifty-two rows.

Color-Pale, with a pair of bands as broad as the pupil extending from the snout, where they unite, following the dorsal line at a distance about equal to their own width and comnecting with the same at the end of the base of the second dorsal where they remite: a second broad pair of bants, extembing from the snont through the middle of the eye, in a straight line below the lateral line to the base of the caudal ; traces, on the head, of a pair of narrower bands between the two pairs already mentioned; also a single stripe, on the mesial line of the body, from a point in adrance of the eyes to the region of the dorsal. A very prominent blotch at the base of the candal fin.
D. XI, 1, 15. A. III, s. Seales, $\boldsymbol{i}|(50)| 10$.

## SERRANIDE.

## 22. Rhypticus pituitosus, 11. sp. (ioode \& Be:th.

A single young specimen (No. 23353 ), 47 millimeters long, collected at Key West, Fla. Althongh immature, its characters seem to distingnish it from all described speries. Its nearest ally is the Rhypticus nigripinnis of Gill, from Panama,* but we do not teel justified in referring the Key West specimen to this species, in view of the differences int color and the remoteness of the two localities. In radial formule and proportions it agrees sufficiently well with Gill's diagnosis.

Diagnosis.-One continons dorsal. The height of the borly is less than the length of the head, being contained $3 \frac{1}{2}$ times in length of body without candal, $4 \frac{2}{3}$ times in total leugth. Length of head, exceerling $\frac{.}{3}$ of length of body withont caudal, contained $3 \frac{1}{2}$ times in total length. Diameter of eye donble the length of the snout and half as long as the lower jaw. Upper jaw reaches nearly to vertical from posterior margin of orbit. Width of posterior expansion of maxilla equals one-third length of lower jaw. Length of upper jaw contained $2 \frac{2}{2}$ times in length of head. Length of pectoral equals that of postorbital portion of head. Pectords extend beyond the tips of the rentrals a distance equal to length of rentrals. Dorsal and anal fins higher posteromy, the longest

[^1]rays in the two fins being equal. The longest anal rays reach to, and the longest dorsal rays reach beyond, a vertical throngh the origin of the middle caudal rays. Pectoral rouded. Ventral short. Scales moderate.

Color--Very light brown, with numerons small brown spots, the diameter of the largest one-third that of the eye, absent on the abdomen and throat. Traces of light margins to vertical fins.
D. II, 27 ; A. 15; V. I, 5 ; P. 14; C. 15. Lateral line 9-90-30.

## SPHYRENIDA.

23. Sphyræna picuda.-Barracoudu.

Specimens in salt (No. 23644) from "West Florida."

## MUGULIDE.

24. Mugil brasiliensis, Agassiz.-Mullel.

A single specimen (No. 23643) in salt from West Florida.

## ATHERINIDE.

25. Atherina Velieana, 11. sp. Goode \& Bean.

A single specimen (No. 23629), 45 millimeters long, was collected by Dr. Velie in Clear Water Itarbor, Fla.

Diagnosis.-Height of body contained $4 \frac{2}{3}$ times in total length of body, withont candal, the length of the head $3 \frac{1}{2}$ times. The spinons dorsal begins behind the vertical from the tip of the pectoral fin, and its origin is in the vertical from the tips of the rather long ventrals. The diameter of the orbit is contained twice in the length of the head, being greater than the width of the interorbital area and more than twice the length of the snont. Snont obtuse, the top of the head being broad and very Hat. The cleft of the month somewhat oblique, the jaws equal anteriorly. The maxilla extends beyond the vertical from the anterior margin of the orbit, the mandible reaching nearly to that from its middle. Teeth very small in the jaws and on the vomer. The silvery band oceupies the third row of seales (the dorsal mesial row not being included in the comnt); its width is less than half that of the eye.
D. V. I, ! ; A. I, $10 \frac{1}{1} ;$ V. I, 5; P. 15. L. lat. 36; L. trans. $6 \frac{1}{2}$.

## CYPRINODONTIDE.

26. Mollienesia latipinna, Le sueur.

Three specimens (No. 23554 ), about 5 centimeters long, were collected in Clear Water Ilarhor, Fla., male and females.

## SYNODONTLDE.

## 27. Synodus fæetens (Limn.), (iill.

A single specimen (No. 235.5), 68 millimeters long, was obtained at Key West by Dr. Velie.
D. 13. A. 12. L. lat. 63.

## CLUPEIDA.

28. Harengula pensacolæ, Goote d Bean.

Harengulu pruxacole, Goode d Bean, Proc. L. S. N. MI., I1, p. 153, Nov. 5, 1879.
I single specimen (No. $236 ; 31$ ), 90 millimeters long, was obtained by Dr. Velie at Clear Wiater Harbor. It agrees perfectly with the published description (sup) cit.) except that there are $1 t$ abdominal sertes. This chanacter then is demonstrated to be of no valne in separating the speeies of this gemus. The pectoral rays momber 14 (instead of 15, as in the Pensacola specimens).

> EN(xRDULI)
29. Engraulis hiulcus, II. sp. Fioode and Bean.

A single specimen, in bat condition (No. 23632 ), 47 millimeters long, was collected by Ir. .J. W. Velie at Clear Water Harbor, Fla.

Diugmosis.-Height of body rontained $5 \frac{1}{2}$ times in its length without caudal, 63 times in total length. Length of head contained $3 \frac{2}{3}$ in length without randal, $4 \frac{1}{2}$ in length with candal. Diameter of the ege greater than length of shout, and one-third the length of the head. Snout somewhat compressed. Minute teeth in both jaws. Maxillary slightly dilated, ending in an acute point extending back to the gill-opening; toothed to the extreme posterior angle of the straight inferior edge. Gill rakers not very mmerons, the longest as long as the eye. Origin of the dorsal fin midway between the posterior margin of the orloit and the root of the eambal fin. Distance of ventral from shout equal to length of maxilla. Anal fin inserted moter posterior third of dorsal (12th or 13 th ray, Pectorals a little longer than ventrals (half as long as head); their tips falling short of reaching the origin of ventrals by a distance equal to half the diameter of the orbit. The ventrals are half as long as the lower jaw. Lateral stripe one-thime of the height of the body at the ventrals. Scales in the lateral line not comnted.
D. 1.). A. 2 .

## SILURII)E.

30. Ariopsis felis (LiNN.), (fill II Jordam.

Several yomge specimens (23633), 号 millimeters long, were obtained by Ir. Velie from Marco Lsland near ('ape Romano, Fla.

The mbbilical sacs are still attached, and are 13 millimeters in diameter.
MURENID.E.
31. Sphagebrauchus scuticaris, n. sp. (ioonle \& Bean.

I specinen (No. 23636), 750 millimeters long, fiom Cedar Key, Fla. It appears to belong to the group sphaychrouchus as limited by Giinther in his key to the species in the genns Ophichthys.

The ocenrrence of this genns in the (xulf of Mexice, or inderd in the Atlantic is noteworthy. All the species recognized by Giunther are from Eastern seas, except two from the Mediterranean.

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Diagnosis.-Teeth small, conical; gill-openings elose together. The dorsal fin commences far in adrance of the gill-opening, a little nearer to the top of the snout than to the gill-opening, at a distance from the former equal to three times the length of the snout. The length of the head is contained $8 \frac{1}{2}$ times in distance between gill-opening and rent, and 8 times in length of tail. Snont pointed, contained 6 times in length of head. Teeth biserial in jaws and on vomer. Pectorals extremely small. Color, brownish, lighter below.
Measurements.
Millimeters.
Length of body ..... 750
Length of tail ..... 345
Length of head ..... 43
Width of interorbital area ..... 5
Length of suout ..... $6 \frac{1}{2}$
Angle of mouth from tip of upper jaw ..... $10 \frac{1}{2}$
Angle of month from tip of lower jaw ..... 8
Diameter of orbit ..... 1 $\frac{1}{2}$
Distance of dorsal from snont ..... 21
Width of gill-opening ..... $5 \frac{1}{2}$
Length of pectoral (right side) ..... 2
Length of pectoral (left side) ..... $1 \frac{1}{8}$
32. Gymnothorax ocellatus, Agassiz.

A single sperimen (No. 23634), 325 millimeters long, was sent from Clear Water Harbor. The markings are of the typical eharacter.
33. Crotalopsis mordax (Poey), (ioole If Bean.

Two specimens (No. 23635), 36.5 and 232 millimeters, were sent by Dr. J. W. Velie from Clear Water llarbor, Fla. They are young, and have the eye contained about $1 \frac{1}{2}$ times in the length of the snont. The spots are large, the longest with diameter less than half the length of the head.

## TRYGONIDE.

34. Dasybatis sabina (Lesuevr).-sting Riay.

Three specimens (No. 23648) in salt, each about two feet long, tail included, were sent by Dr. Velie; also, a large skin of a Sting Ray, probably 1). tuberculutus, or perhaps D. hestatus or D. Sayi.

## GALEURHINIDE.

35. Hypoprion brevirostris, Poey.-Man-eater shurk.

A large specimen (No. 23649) in salt was sent by Dr. Velie. This species was incorrectly cited by ns, lapso calami, in the American Journal of Science and Arts, October, 1577, under the name Hypoprion longirostris.

## SPHYRNIDE.

36. Reniceps tiburo (Linn.), Gill.-Showl-nose Shark.

A single small specimen in salt (No. 23650) was sent by Dr. Velie.

## GINGLIMOSTOMATID E.

37. Ginglymostoma cirratum.-Nurse Shark.

A large speeimen (No. 23651), about nine feet long, in salt, was sent by Dr. Velie.

Note-The following new species are described in this paper:
Diapterus homonymus, Goode \& Bean.
Batrachus tan (Lim.), Cuv., sulspp. pardus, Goorle \& Bean.
Hem "nlon firemebundum, Goode © Bean.
Rhypticus pituitosus, ( foode \& Bean.
Atherinn Velicana, (roode \& Bean.
Engrautis hiulcus, Goode \& Bean.
Sphagebranchus scuticuris, Goode \& Bean. $\begin{aligned} & \text { United States National Museum, } \\ & \\ & \text { Washington, December 31, } 1879 .\end{aligned}$
 CIEUS'AC'EA, (IECTENE EREONTIDIE)。

## By SIDNEY I. SMITII.

Among the very interesting collections of marine invertebrate animals marle during the past two years by the fishermen of Gloucester, Mass, and presented to the United States Fish Commission, for the National Museum, there are two species of podophthalmous Crustacea of peculiar interest. One of these is a remarkable Paguroid which I have already described (Trans. Connecticut Acarl., v, p. 50, 1879), but of which several additional specmens have been received since the description was published: the other, which is the subject of this notice, belongs to the "Willemoesia gromp of Crustacea," first brought into prominent notice by the researches in connection with the Challenger Expedition. Of the latter species I have seen only a single specimen, which was taken at a depth of 250 fathoms, off the coast of Nova Scotia, southeast of Sable Island, latitude $43 \circ 10^{\prime}$ north, longitule $61^{\circ} 20^{\prime}$ west, by Captain Thomas Olsen, of the sehooner Epes Tarr. This specimen is not in very good condition, having been dried (probably after being taken from the stomach of some fish, though there is rery little evidence of digestion having begme, and the internal organs consequently destroyed, but it is still sutficient to throw considerable light upon the structural peculiarities of the group to which it belongs, and on this account particularly $I$ am induced to publish a speeial notice of it.

Of the three genera into which Bate* has recently separated the forms of the "Willemoesia group," our species should unquestionably be referred to Pentacheles, but, on account of the at present uncertain

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[^0]:    * The National Musemm has a specimen from Pensacola, Fla., collected by Silas Stearns in 1878 (No. 21475); another from West Florida, collected by Kaiser and Martin (No. 5149), and two collected at Indianola, Tex., bs J. H. Clark (No. 746). No species of Batrachus is now recognized from the eastem coast of South America, though it seems certain that some species, closely allied to $B$. tau, or perhaps even this very species, occurs in Brazil. Compare Batrachus Gronorii, CuV. \& Val., Hist. Nat. Poiss., xii, 1837, p. 482.-Butrachus cryptocentrus, CUv. \& Val., l. c., p. 485, from Bahia, rejected by Günther as incompletely described.
    † Cat. Fish Brit. Mus., iii, 1861, p. 167.

[^1]:    * 1861. Gill, Theodore N. Synopsis generum Rhyptici et affinium. < Proc. Acad. Nat. Sci. Phila. 1861, pp. 52-54 (p. 53).

[^2]:    * On the Willemoesia Gronp of Crustacea. <Annals and Magazine Nat. Hist., V, ii, pp. 273-283, pl. 13, 1878.

